

Astronomy

4-3 The student will demonstrate an understanding of the properties, movements, and locations of objects in the solar system. (Earth Science)

4-3.8 Recognize the purpose of telescopes.

Taxonomy level: 1.1-A Remember Factual Knowledge

Previous/Future knowledge: This indicator is new for this grade. In 8th grade (8-4.10), students will compare the purposes of the tools and technology that scientists use to study space (including various types of telescopes, satellites, space probes, and spectroscopes).

It is essential for students to know that telescopes are tools that aid in the study of objects in outer space.

- A *telescope* can gather more light than the eye, so it makes faint, faraway objects seem brighter and closer.

It is not essential for students to know about the design of reflecting and refracting telescopes, nor do they need to construct or experience the use of a telescope.

Assessment Guidelines:

The objective of this indicator is to *recognize* the purpose of telescopes; therefore, the primary focus of assessment should be to locate from memory what the purpose of this tool is in the study of outer space. However, appropriate assessments should also require students to *identify* a telescope from a picture or drawing.